

# Rolled Ball Screws Standard Nut (Shaft Diameter 8, Lead 2, 4)

Accuracy Grade C7, C10

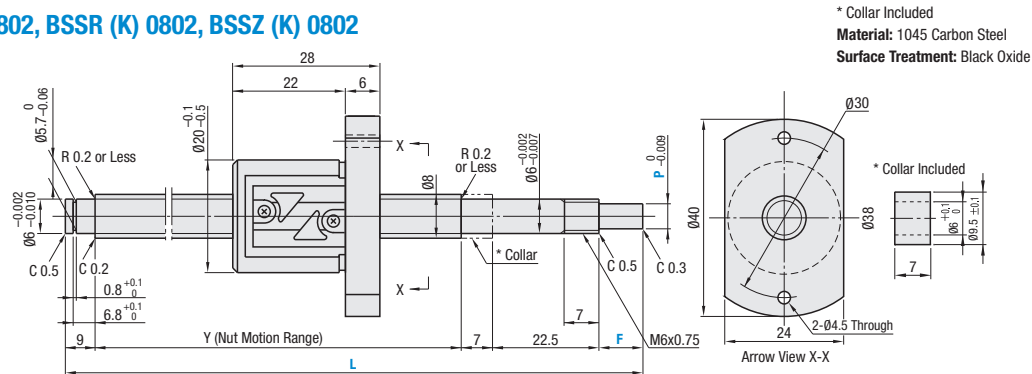
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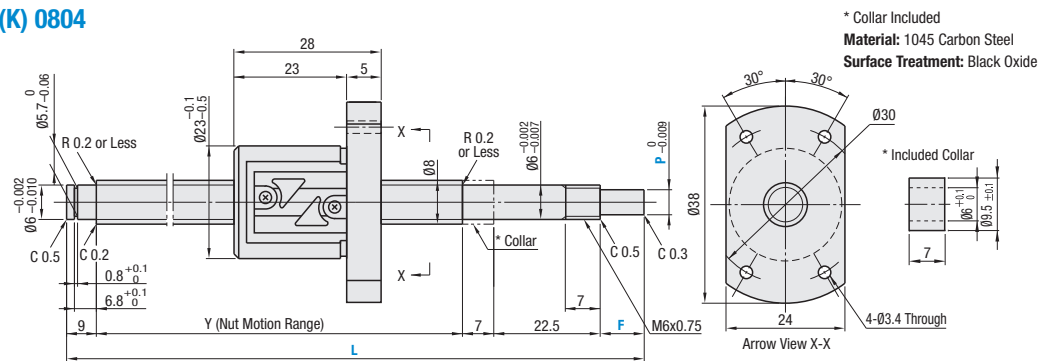
RoHS10

Nut Type	Type		Accuracy Grade	Shaft Diameter	Lead	Screw Shaft			Nut		
	Standard	F, P Configurable				Material	Hardness	Surface Treatment	Material	Hardness	Surface Treatment
Standard Nut	BSST	—	C7	8	2	1055 Carbon Steel	Induction Hardened 56–62 HRC min.	Phosphate Conversion Coating	JIS SCM420	Carburized 58–62 HRC min.	Ⓢ Phosphate Conversion Coating
	BSSR	BSSRK	C10								Phosphate Conversion Coating
	BSSZ	BSSZK	—								—

## BSST0802, BSSR (K) 0802, BSSZ (K) 0802



## BSSR (K) 0804



Nut Type	Accuracy Grade	Part Number			1 mm Increment			Y	Ball Dia.	Ball Center Dia.	Screw Root Dia.	Number of Circuits	Basic Load Rating		Axial Play	Twisting Direction
		Type	Screw Shaft O.D.	Lead	L	*F	*P						C (Dynamic) kN	C <sub>0</sub> (Static) kN		
Standard Nut	C7	BSST	08	02	100–380	7.5	4.5	L-46	1.5875	8.3	(6.6)	3.5 Turns, 1 Row	1.8	3.2	0.03 or Less	Right
		BSSR			100–400											
	BSSZ	8–13			4, 4.5	L-(38.5+F)										
	BSSRK	100–380			7.5	4.5	L-46									
	BSSZK															
C10	BSSR	04	100–380	7.5	4.5	L-46	2	8.4	(6.3)	2.5 Turns, 1 Row	1.9	3.1	0.05 or Less	Right		
BSSRK	8–13														4, 4.5	L-(38.5+F)

\* F and P are configurable for BSSRK and BSSZK only. Ⓢ F≤Px3 kgf=Nx0.101972

# Rolled Ball Screws Standard Nut (Shaft Diameter 8, Lead 2, 4)

Accuracy Grade C7, C10, continued

**Part Number Example**

Part Number	-	L	-	F	-	P
BSSZ0802	-	200	-		-	
BSSZK0802	-	370	-	F12	-	P4.5
BSSR0802L	-	370	-		-	L Type Greased
BSSR0804G	-	370	-		-	G Type Greased

**Note:**

- Ⓢ Mounting surface of BSST ball nut flange is not surface-treated.
- Ⓢ Filled with lithium soap based grease (Alvania Grease S2 made by Showa Shell Sekiyu K.K.).
- Ⓢ Various grease options are available. For specifications, P.752.
- Ⓢ For accuracy of Ball Screws, see P.752–754.
- Ⓢ For details of Support Units, see P.792–802.
- Ⓢ Caution: Do not remove any nuts from their screw shafts or allow nuts to overrun the stroke. It may cause the balls to fall out or damage the ball recirculation parts.
- Ⓢ Included Collar is packaged together with main body of Ball Screws. Store this Included Collar with care since it is required when mating with Support Units.
- Ⓢ Do not tilt the Ball Screw Assembly. Due to its own weight, the nut may rotate off of the shaft.

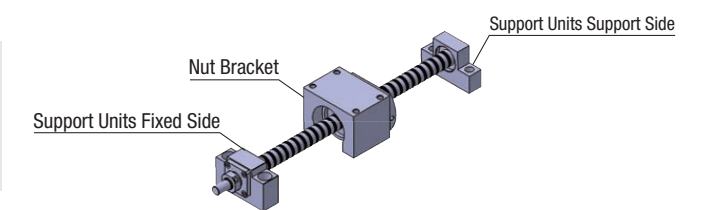
**Part Number Alterations**

Part Number	-	L	-	F	-	P	-	(FC, MC, etc.)
BSSR0802	-	270	-		-		-	SC5

Alterations	Code	Spec.
No Machining on Support Side Shaft End	NC	No machining added on the support side shaft end. Ordering Code: NC
Ball Nut Orientation Reversed	RLC	Changes the nut direction. Ordering Code: RLC
No Retaining Ring Groove on Support Side Shaft End	RNC	Retaining ring groove is not machined on the support side shaft end. Ordering Code: RNC Ⓢ Combination with FC is not available.
Change Support Side Shaft End Length	FC	Changes the length of the support side shaft end. FC = 1 mm Increment Ordering Code: FC20 Ⓢ 10≤FC≤20 Ⓢ Y dimension is shortened.

Alterations	Code	Spec.
Wrench Flats on Fixed Side	SZC	Adds wrench flats on the fixed side shaft end. Ordering Code: SZC Ⓢ A ball bearing will fall out if a ball nut crosses the wrench flat
Incomplete Hardened Area		
Flat Machined on Fixed Side Shaft End	SC	Adds a flat on the fixed side shaft end. SC = 1 mm Increment Ordering Code: SC5 Ⓢ 5≤SC≤12 SC≤F-1
2 Flats on Fixed Side Shaft End	SWC SGC	Adds two flats on the fixed side shaft end. SWC: 90° Position SGC: 120° Position 1 mm Increment Ordering Code: SWC6 Ⓢ 5≤SWC, SGC≤12 SWC, SGC≤F-1
Installing Special Temporary Shaft	TAS	Special Temporary Shaft used for installing Ball Screw Nut. Always use Special Temporary Shaft when removing or installing Ball Screw Nut.

**Peripherals:** Combination of the following parts are available.



### Combination with Support Units

Ball Screw Part Number	Recommended Support Units								
	Type	Screw Shaft O.D.	Lead	Part Number	Shape	Fixed Side	Support Side	Page	
BSST BSSR BSSZ	08	02	04	BRW	6	Round	○	—	800
				BUR	6		—	○	802
				BSW	6	Round	○	—	794
				BUN	6		—	○	798

Ⓢ Aside from the part numbers shown above, there are a variety of other Support Units available. (P.792–802).

### Combination with Nut Brackets

Ball Screw Part Number	Recommended Nut Brackets							
	Type	Screw Shaft Outer Diameter	Lead	Part Number	Page			
BSST BSSR BSSZ	08	02	04	BNFB BNFM	802R	810		
				BNFR BNFA		810		
							804R	810
								810